



National Space Grant College and Fellowship Program and The Experimental Program to Stimulate Competitive Research (EPSCoR)

Diane D. DeTroye

Associate Director

Space Grant and EPSCoR Programs

Education Division

Office of Human Resources and Education

202-358-1069

ddetroye@hq.nasa.gov

NASA Education Program



Vision

National Space Grant College and Fellowship Program

- > A national network of colleges and universities working to expand opportunities for Americans to understand and participate in NASA's aeronautics and space programs by supporting and enhancing science and engineering education, research and outreach programs.



NASA Education Program

National Space Grant College and Fellowship Program



> Description:

- > 52 state-based consortia - one in each state plus the District of Columbia and Puerto Rico
- > Congressionally mandated in 1988
- > Modeled after Land Grant and Sea Grant
- > Each consortia develops a suite of programs in three main areas: Education, Research, Public Service
- > Programs are tailored to meet the needs of the state and affiliate members

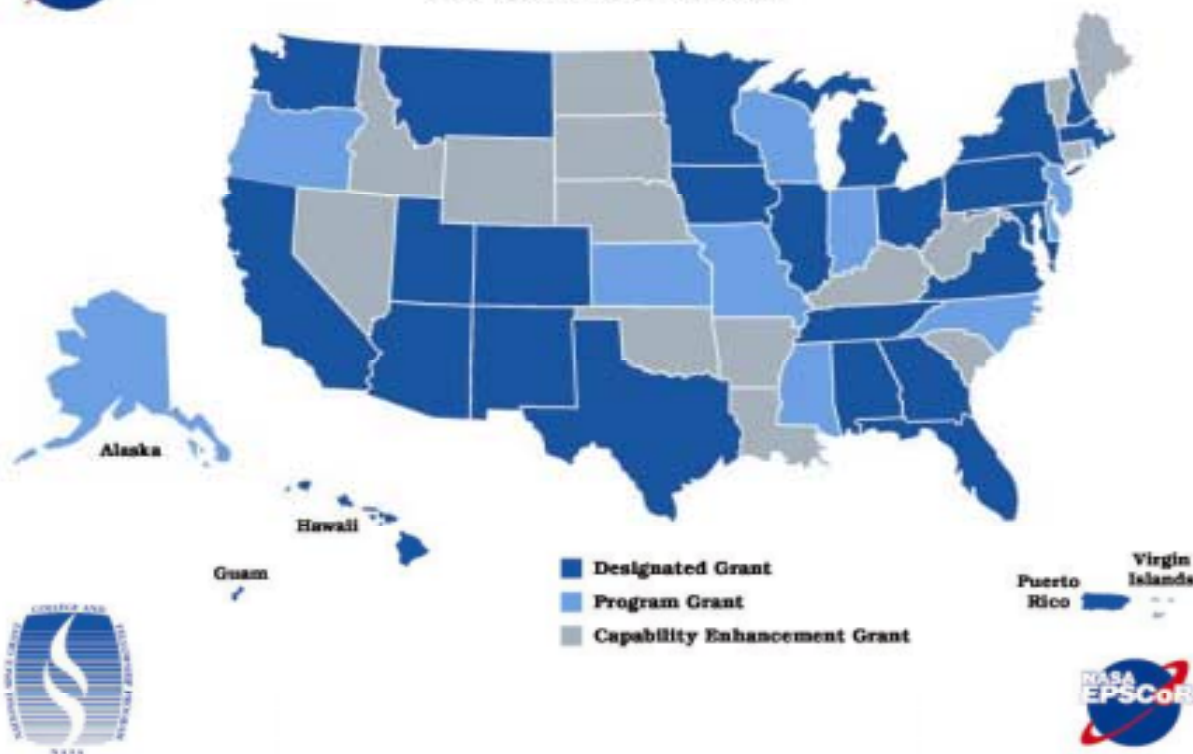
> FY 02 Budget = \$24.1M

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National Space Grant College and Fellowship Program



NASA SPACE GRANT CONSORTIA BY GRANT TYPE



National Space Grant College and Fellowship Program



> Objectives:

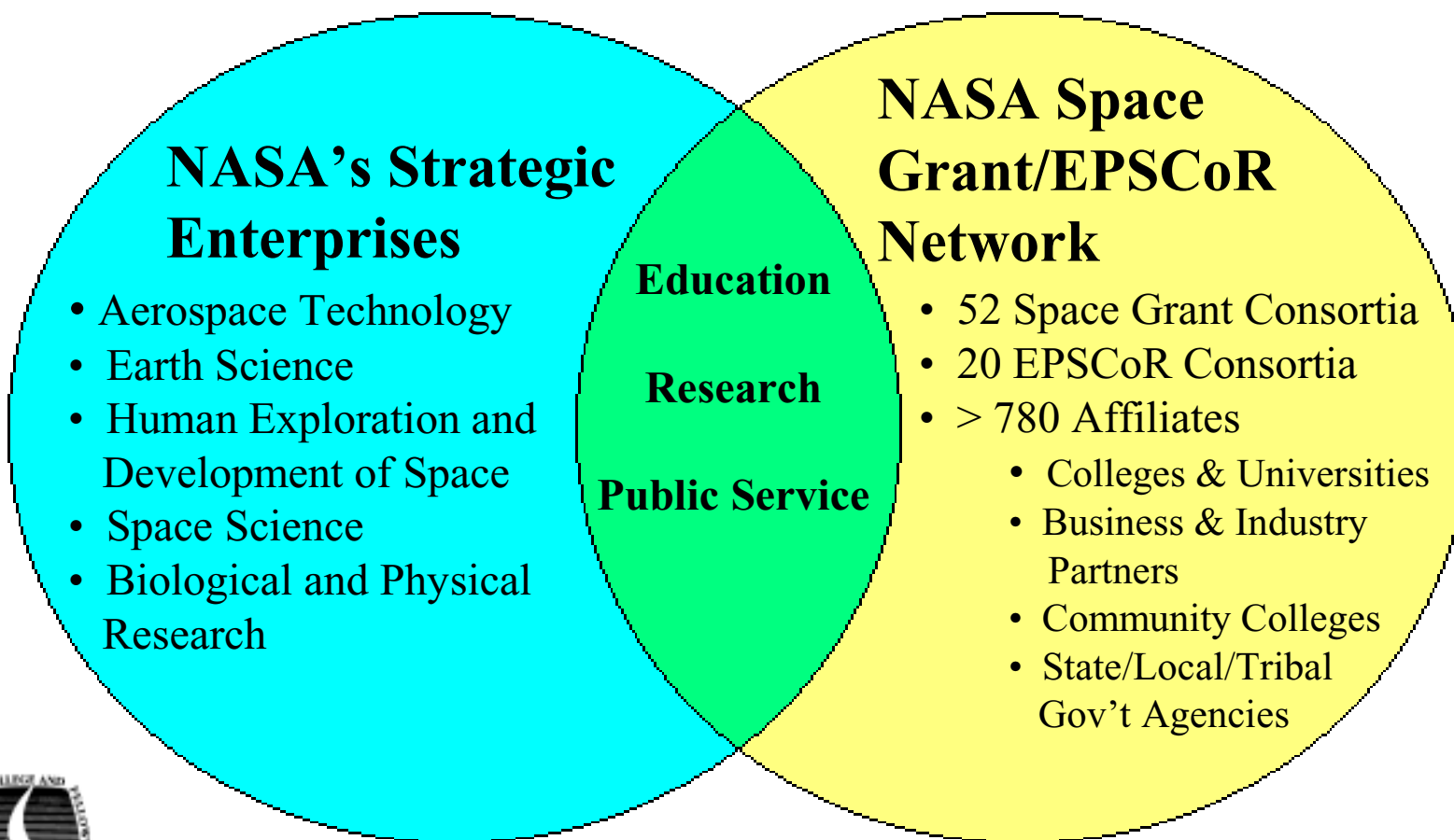
- > Establish and maintain a national network of universities with interests and capabilities in aeronautics, space and related fields.
- > Encourage cooperative programs among universities, aerospace industry, and Federal, state and local governments.
- > Encourage interdisciplinary training, research and public service programs related to aerospace.
- > Recruit and train U.S. citizens, especially women, underrepresented minorities, and persons with disabilities, for careers in aerospace science and technology.
- > Promote a strong science, mathematics, and technology education base from elementary through secondary levels.



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Space Grant Network Linkages with NASA



- > Office of Space Science - Education/Public Outreach
 - > Broker-Facilitators: Southeast Regional Clearinghouse (SERCH) (South Carolina) & Space Science Network Northwest (S2N2) (Washington)
- > Office of Space Flight/JSC - NASA Reduced Gravity Student Flight Opportunities
 - > Space Grant provides some funds
 - > Space Grant consortia encourage student teams to apply and support travel costs for some teams
- > Office of Earth Science - Geospatial Technology Specialist Program
 - > Collaborative program with USDA/Land Grant and NOAA/Sea Grant to apply geospatial technologies to address resource and land use issues
 - > Active programs in 6 states: AL, AZ, CT, MS, ND, UT
- > Goddard Spaceflight Center and Ames Research Center – NASA Academies
 - > Space Grant consortia submit nominees to the Centers and support travel costs for many of the selectees



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Experimental Program to Stimulate Competitive Research (EPSCoR)

> Goal:

- > Provide seed funding that will enable states to develop a academic research directed toward long-term, self-sustaining, nationally competitive capabilities in aerospace/space research.

> Description:

- > Congressionally mandated in 1992
- > Targeted for states with the least amount of federal R&D funding
- > 20 states eligible for NASA EPSCoR
- > 7 other federal agencies have EPSCoR programs

> Budget

- > FY 02 = \$10.0 M

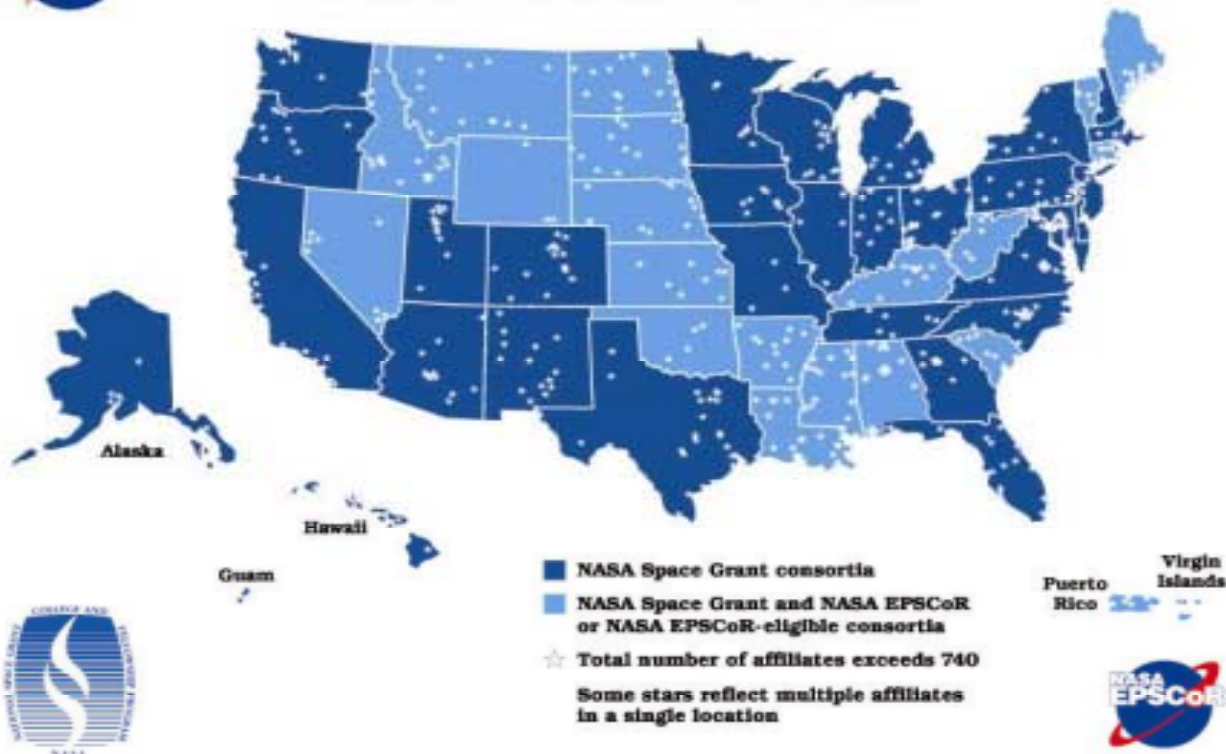


NASA Education Program

NASA EPSCoR States (highlighted in light blue)



NASA SPACE GRANT AND EPSCoR AFFILIATES



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EPSCoR Current Program



- > For the 2001 competition, EPSCoR-eligible states proposed to the Research Compendium
 - > A compilation of the research needs of the Enterprises and Centers as provided by the NASA researchers and scientists
- > 20 states funded for core capability building activities
 - > Primarily to enable them to continue to build relationships and improve contacts with NASA researchers
- > 35 Research Proposals funded
 - > Awards in 19 of the 20 eligible states
 - > Direct relationship to the research needs of the Enterprises and Centers
 - > 4 awards tied to JPL activities



NASA Education Program

Significance of the Space Grant Student Satellite Initiative



- > Builds human capital and research expertise to support NASA programs and missions
- > Develops a future pool of talent in science, engineering, mathematics, and technology disciplines
- > Expands NASA's expertise and educational networks
- > More closely aligns education assets with enhancing the NASA "pipeline" of graduates, contractors, and principal investigators

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